

Recombinant human Biotinidase/BTD protein

Catalog Number: ATGP3461

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

44-545aa

UniProt No.

P43251

NCBI Accession No.

NP_001268652

Alternative Names

Biotinidase isoform 1, BTD, biotinidase

PRODUCT SPECIFICATION

Molecular Weight

57.8 kDa (510aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BTD, also known as biotinidase isoform 1, is a member of the nitrilase superfamily, which consists of 12 families of nitrilases, amidases, carbamylases, and N-acyltransferases. It catalyzes the hydrolysis of biocytin, the product of biotin-dependent carboxylase degradation, to biotin and lysine. It may have an important regulatory role in chromatin/DNA function. Recombinant human BTD, fused to His-tag at C-terminus, was expressed in insect cell

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and purified by using conventional chromatography techniques.

Amino acid Sequence

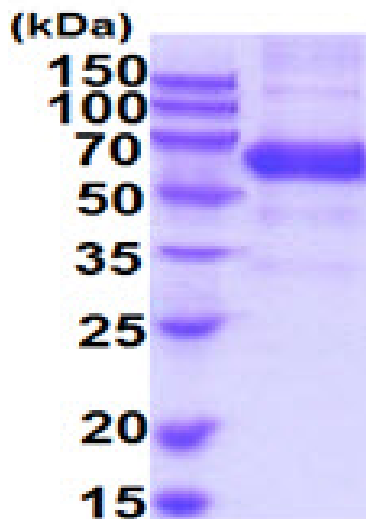
AHTGEESVAD HHEAEYYVAA VYEHPSILSL NPLALISRQE ALELMNQNLD IYEQQVMTAA QKDVQIIVFP EDGIHGFNFT
RTSIYPFLDF MPSPQVVRWN PCLEPHRFND TEVLQRLSCM AIRGDMFLVA NLGTKEPCHS SDPRCPKDGR YQFNTNVVFS
NNGTLVDRYR KHNLYFEAAF DVPLKVDLIT FDTPFAGRFG IFTCFDILFF DPAIRVLRDY KVKHVVYPTA WMNQLPLAA
IEIQKAFAVA FGINVLAANV HHPVLGMTGS GIHTPLESFW YHDMENPKSH LIIAQVAKNP VGLIGAENAT GETDPSHSKF
LKILSGDPYC EKDAQEVHCD EATKWNVNAP PTFHSEMMYD NFTLVPVWGK EGYLHVCSNG LCCYLLYERP TLSKELYALG
VFDGLHTVHG TYYIQVCALV RCGGLGFDTG QQEITEATGI FEFHLWGNFS TSYIFPLFLT SGMTLEVPDQ LGWENDHYFL
RKSRLSSGLV TAALYGRLYE RDLEHHHHHH

General References

Hymes J., et al. (2001) Hum Mutat. 18:375-381.
Cole H., et al. (1994) J Biol Chem. 269:6566-6570.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)